Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-18-23** **Date: 16-05-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/75/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-05-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Technical Manager

Suresh N L
AE-W10

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-18-23** **Date: 11-06-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/75/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	14-05-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

Note:
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-18-23** **Date: 16-05-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/75/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-05-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-18-23** **Date: 16-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.23	_

Note:
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-18-23** **Date: 15-05-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.
Customer Reference	:	BBMP/EE/BTP/WO/75/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-05-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-18-23** **Date: 15-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-18-23** **Date: 15-05-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 13-05-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	52	81	8.1	91.9	60-95	75-100	85-100	95-100
4	1.18 mm	238	319	31.9	68.1	30-70	55-90	75-100	90-100
5	600 micron	200	519	51.9	48.1	15-34	35-59	60-79	80-100
6	300 micron	203	722	72.2	27.8	5-20	8-30	12-40	15-50
7	150 micron	191	913	91.3	8.7	0-10	0-10	0-10	0-15
8	Pan	87	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-18-23** **Date: 15-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.52	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	6.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Vidyaranyapura Sub Division
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-11-18-23** **Date: 25-05-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-05-19

Sample Type /Size : Precast Cover Slab(250 mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 21/05/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.49	3.118	31574	240.7	7.6	7.1	8.9
2	Cover Slab-2	200.48	250.51	3.124	31561	242.1	7.7	7.1	8.9
3	Cover Slab-3	200.51	250.49	3.116	31570	242.4	7.7	7.1	8.9

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Page 1/1
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 15/06/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	15/06/2019	150.73 X 149.42 X 150.42	22521	**8.779**	399.1	17.7	17.5
2	PCC	M15	18/05/2019	15/06/2019	151.25 X 151.49 X 150.88	22912	**8.742**	397.6	17.4	
3	PCC	M15	18/05/2019	15/06/2019	150.66 X 151.44 X 149.58	22816	**8.596**	400.3	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	25/05/2019	150.74 X 150.03 X 150.87	22615	**8.596**	292.2	12.9	12.5
2	PCC	M15	18/05/2019	25/05/2019	149.22 X 151.70 X 150.31	22636	**8.085**	280.2	12.4	
3	PCC	M15	18/05/2019	25/05/2019	151.30 X 151.58 X 150.80	22935	**8.754**	283.1	12.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 15/06/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	15/06/2019	149.87 X 151.06 X 151.44	22639	**8.779**	386.5	17.1	17.2
2	PCC	M15	18/05/2019	15/06/2019	149.60 X 151.73 X 151.87	22699	**8.742**	397.2	17.5	
3	PCC	M15	18/05/2019	15/06/2019	151.74 X 151.87 X 151.22	23045	**8.596**	394.3	17.1	

Note:
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Vidyaranyapura Sub Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	25/05/2019	150.53 X 151.92 X 150.16	22868	**8.596**	283.5	12.4	12.6
2	PCC	M15	18/05/2019	25/05/2019	150.54 X 150.04 X 150.05	22587	**8.085**	279.7	12.4	
3	PCC	M15	18/05/2019	25/05/2019	149.77 X 150.32 X 150.78	22514	**8.754**	291.2	12.9	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 15/06/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	15/06/2019	150.20 X 151.47 X 149.95	22750	**8.779**	393.6	17.3	17.3
2	PCC	M15	18/05/2019	15/06/2019	150.68 X 151.71 X 150.16	22860	**8.742**	395.5	17.3	
3	PCC	M15	18/05/2019	15/06/2019	149.97 X 150.35 X 151.45	22548	**8.596**	387.8	17.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Suvitha .N.K
AE W10

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

Page 1/1
****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-18-23** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Dilip Kumar N.S, No: 2405, E Block, Sahakaranagar, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/75/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2019	25/05/2019	151.09 X 149.14 X 149.94	22534	**8.596**	275.8	12.2	12.4
2	PCC	M15	18/05/2019	25/05/2019	149.83 X 150.50 X 149.86	22549	**8.085**	290.9	12.9	
3	PCC	M15	18/05/2019	25/05/2019	151.24 X 149.62 X 151.99	22630	**8.754**	274.4	12.1	

Note:
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All information furnished by Customer/Representative
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Smitha NR
AE WIO

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97